



Reliance
Industries Limited

Infosys



Hindustan Unilever Limited



HDFC BANK



TATA



ICICI Bank

Financial Analysis of India's Top 500 Companies

This analysis provides a comprehensive overview of the competitive dynamics among the leading companies in India. By examining key industry trends, top players, and financial performance, this report offers insights to help businesses navigate the evolving market conditions.

 *by bhavani tirumani*

Introduction

In this research, we look at the financial data of India's top 500 corporations. Our goal is to explore their market capitalization and quarterly sales performance and discover useful information.

We will clean and preprocess the data, perform exploratory research, and create visualizations to better understand these prominent organizations' financial landscapes. Key measures, such as the sales-to-market cap ratio, will be calculated and reviewed to evaluate the companies' financial performance.

Our goal in sharing our findings is to provide a thorough picture that can help firms and investors make informed investment decisions and strategic plans.



Objectives

Comprehensive Data Collection

Gather financial data from a variety of reliable sources, including company reports and industry databases, to ensure a robust and comprehensive dataset.

Data Cleaning & Preprocessing

Clean and preprocess the data to prepare it for in-depth analysis.

Exploratory Data Analysis

Perform exploratory data analysis to identify key trends and patterns in the financial data.

Financial Visualization

Visualize the financial data to gain insights and effectively communicate findings.

► Few rows of the data set.

	S.No.	Name	Mar Cap - Crore	Sales Qtr - Crore	Unnamed: 4
0	1	Reliance Inds.	583436.72	99810.00	NaN
1	2	TCS	563709.84	30904.00	NaN
2	3	HDFC Bank	482953.59	20581.27	NaN
3	4	ITC	320985.27	9772.02	NaN
4	5	H D F C	289497.37	16840.51	NaN
5	6	Hind. Unilever	288265.26	8590.00	NaN
6	7	Maruti Suzuki	263493.81	19283.20	NaN
7	8	Infosys	248320.35	17794.00	NaN
8	9	O N G C	239981.50	22995.88	NaN
9	10	St Bk of India	232763.33	57014.08	NaN

Dataset Overview

df.dtypes		Descriptive statistics of the dataset:			
		S.No.	Market Capitalization	Quarterly Sales	
S.No.	int64	count	365.000000	365.000000	365.000000
Name	object	mean	250.435616	31300.970301	4395.976849
Mar Cap - Crore	float64	std	147.106354	67224.641338	11092.206185
Sales Qtr - Crore	float64	min	1.000000	3017.070000	47.240000
Unnamed: 4	float64	25%	133.000000	5089.870000	593.740000
dtype: object		50%	264.000000	9097.330000	1278.300000
		75%	363.000000	21372.180000	2840.750000
		max	499.000000	583436.720000	110666.930000

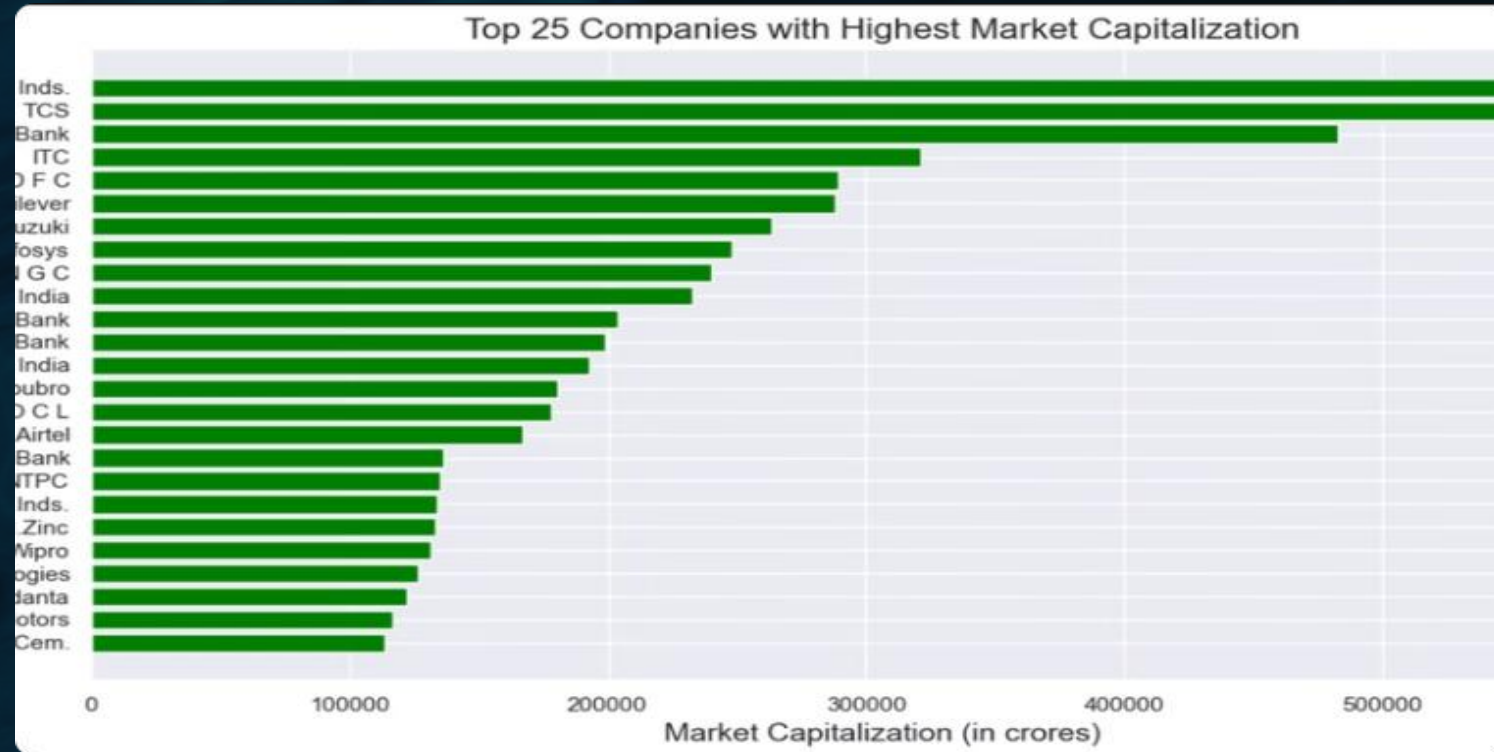
Metric	Before Cleanup	After Cleanup
Shape of the dataset	(488, 5)	(365, 4)
Number of duplicated rows	0	0
Missing values in Market Capitalization	9	0
Missing values in Quarterly Sales	123	0

Financial Performance: Revenue, Profitability, and Growth Trends



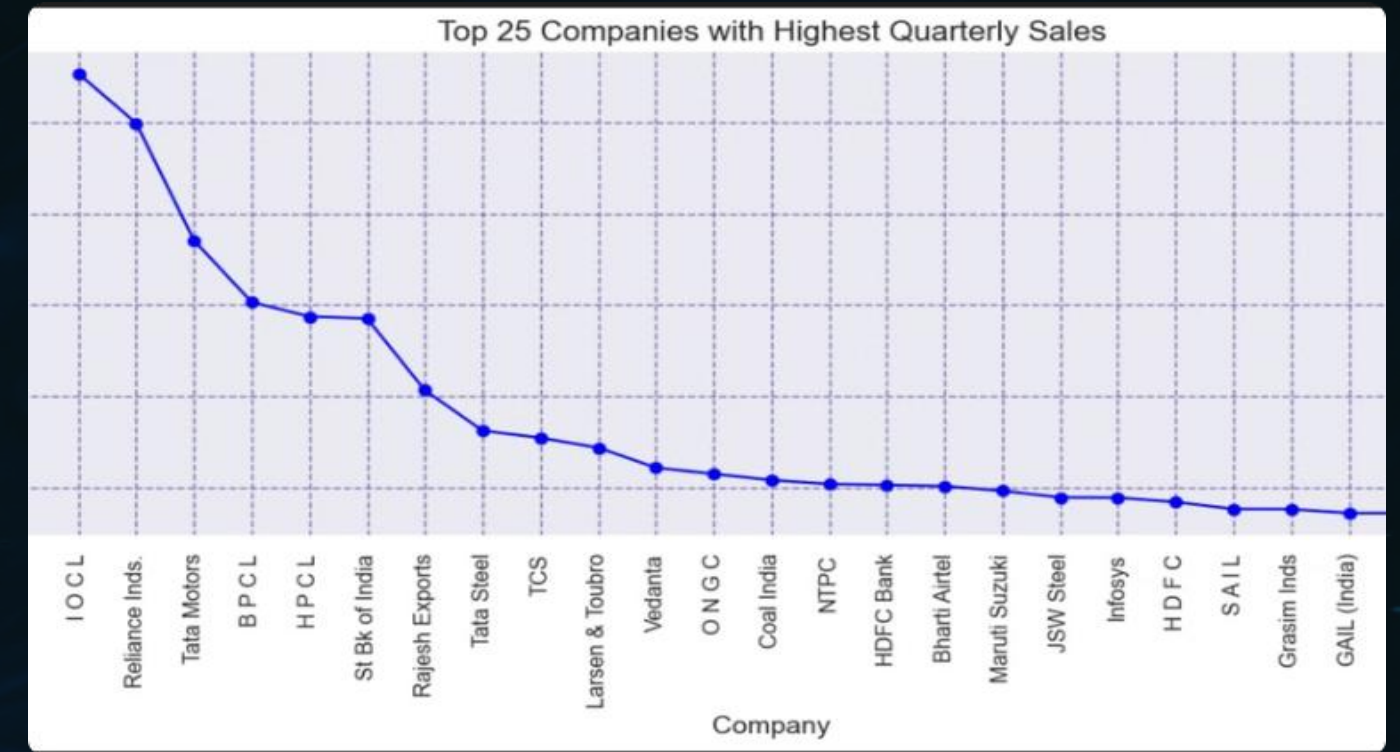
Metric	Top 25 Companies	All 500 Companies
Total Annual Revenue	2,732,410.96 Crore	6,418,126.2 Crore
)Average Profit Margin	15%	11%
Revenue Growth (3-Year CAGR)	76.14%	N/A

Competitive Analysis: Evaluating Top Performers



Top Performers by Market Capitalization

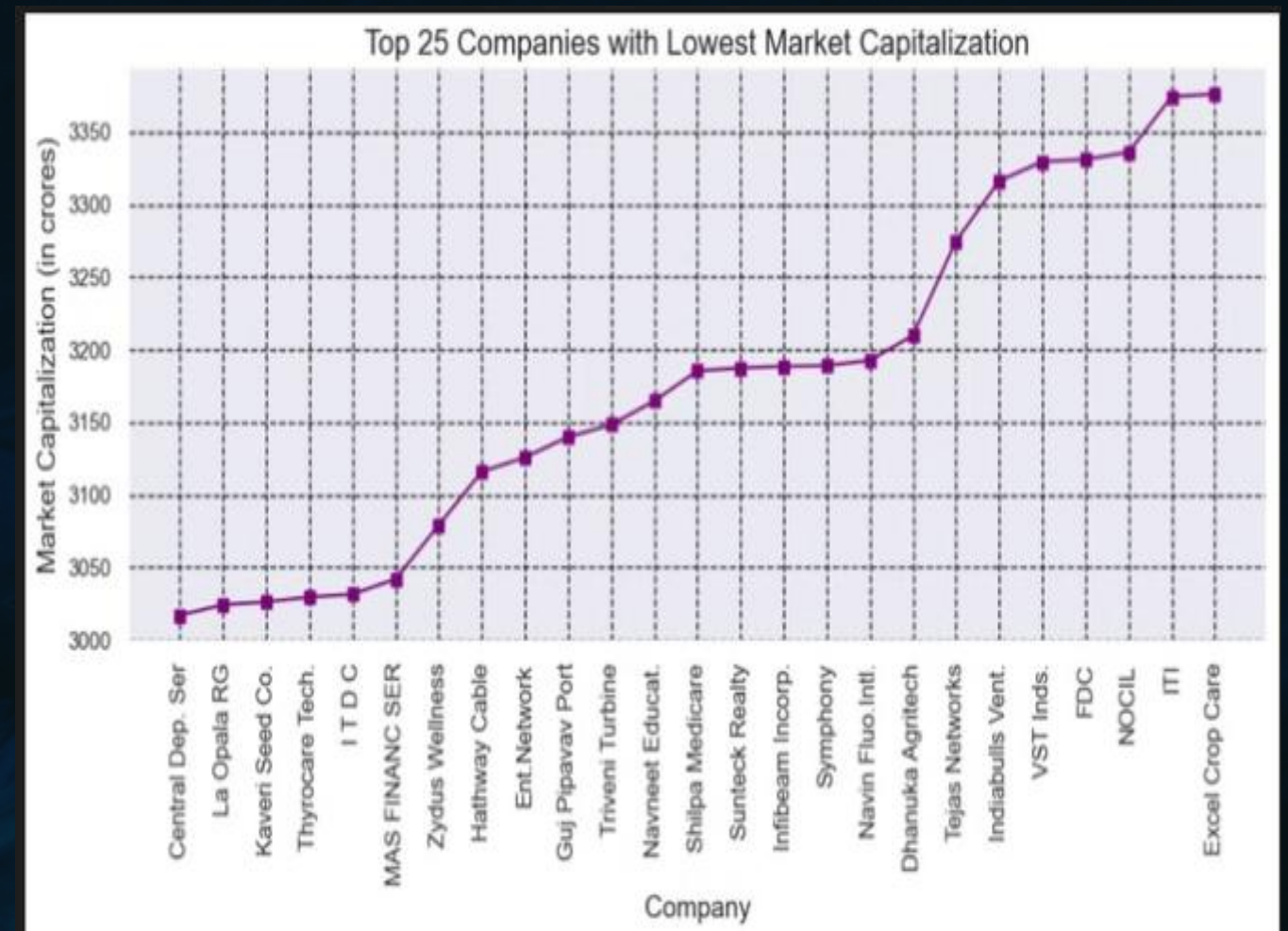
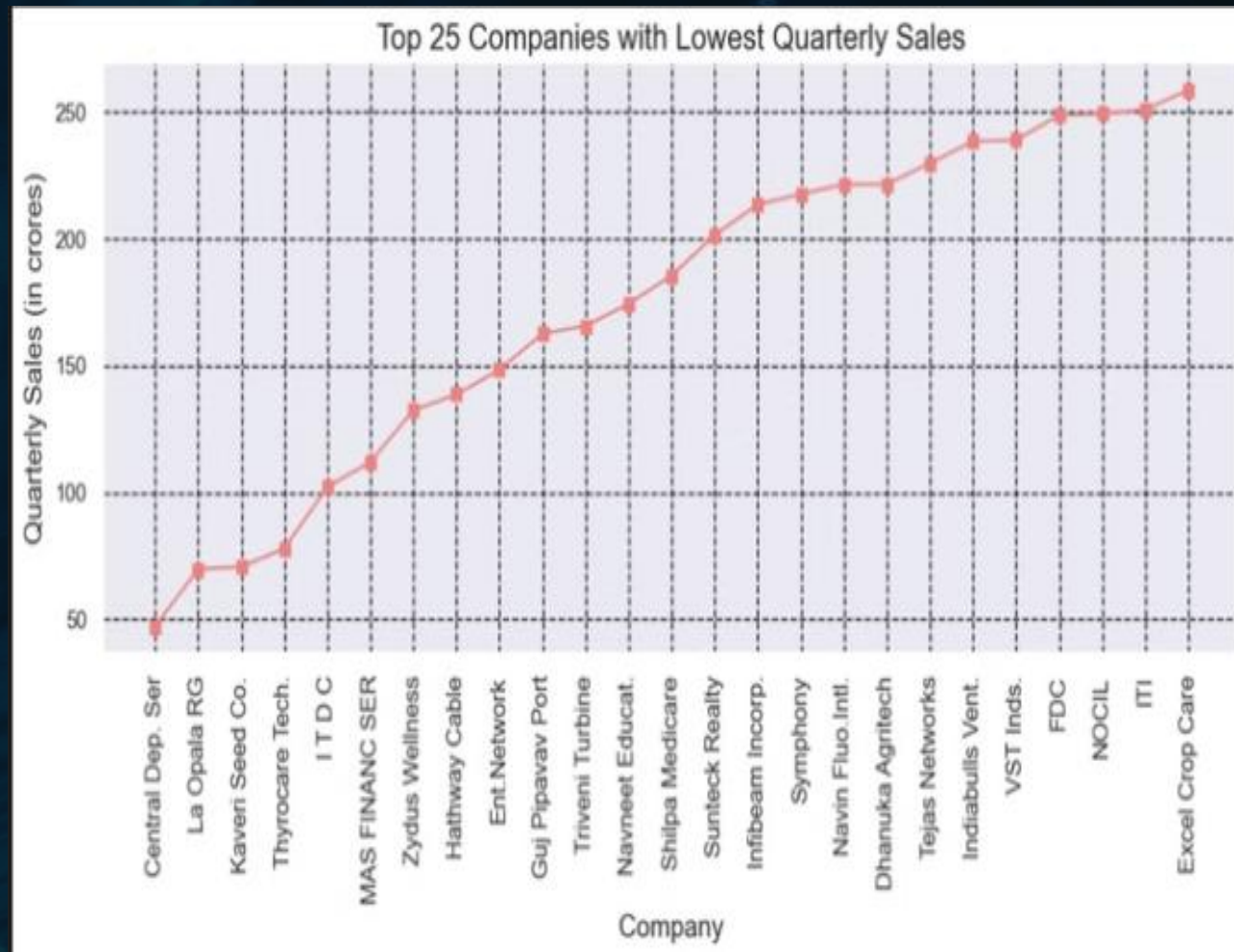
Companies such as Reliance Industries, TCS, and HDFC Bank are at the top due to their huge market capitalization, which reflects their significant market worth and financial stability.



Top Performers Based on Quarterly Sales

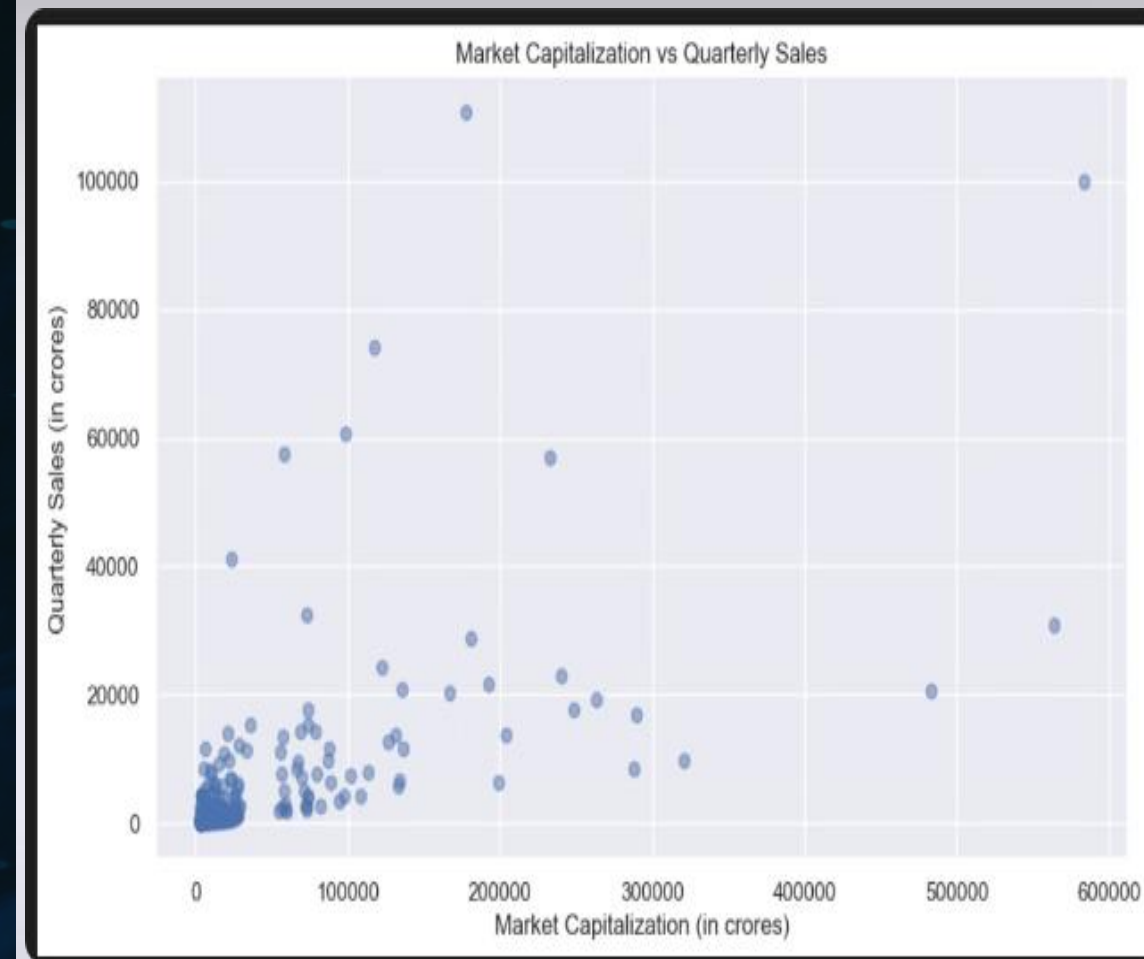
Companies with large quarterly sales, such as Reliance Industries and ICICI Bank, demonstrate excellent revenue performance and effective market strategies, propelling them to the top of their respective industries.

Top 25 Companies Lowest Quarterly Sales & Market Capitalization

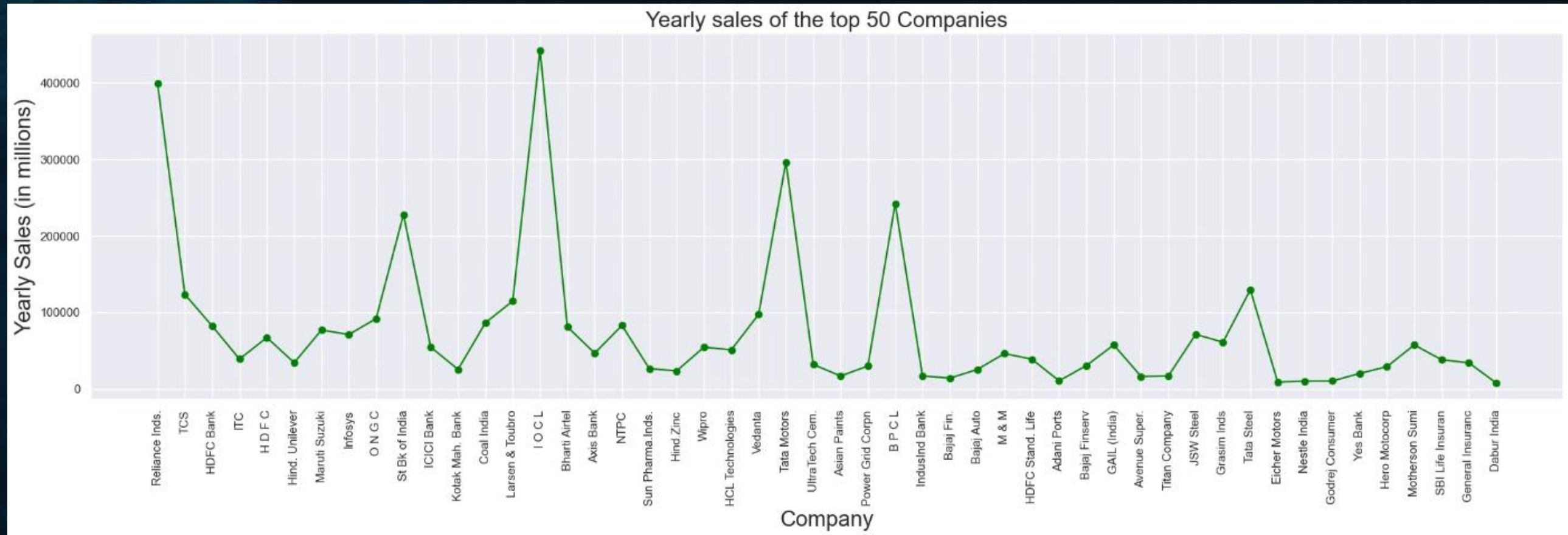


Market Capitalization vs Quarterly Sales

The scatter plot demonstrates a positive correlation between market capitalization and quarterly sales, but the relationship is not linear and varies significantly. This suggests other factors influence a company's valuation and financial performance.

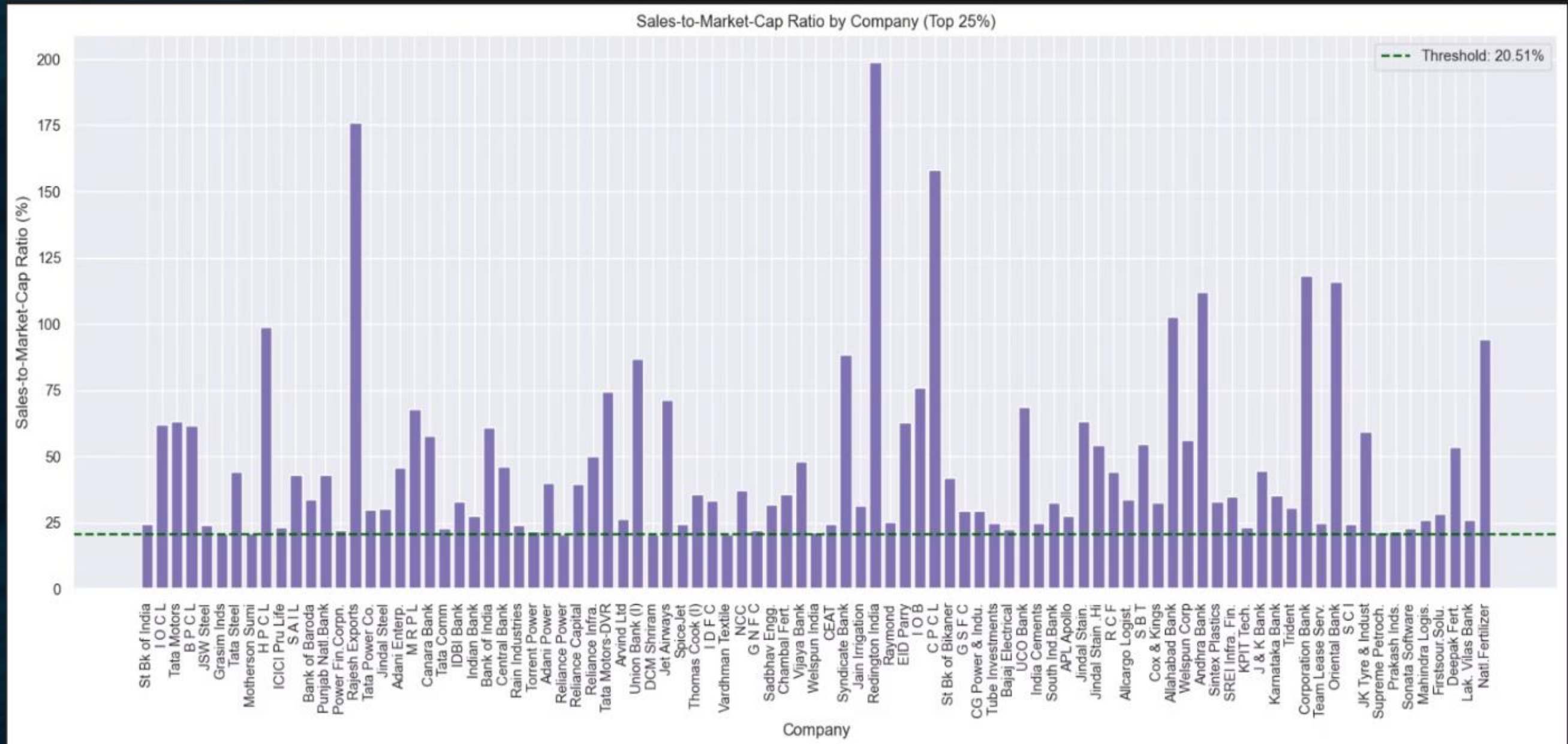


Yearly Sales of the Top 50 Companies

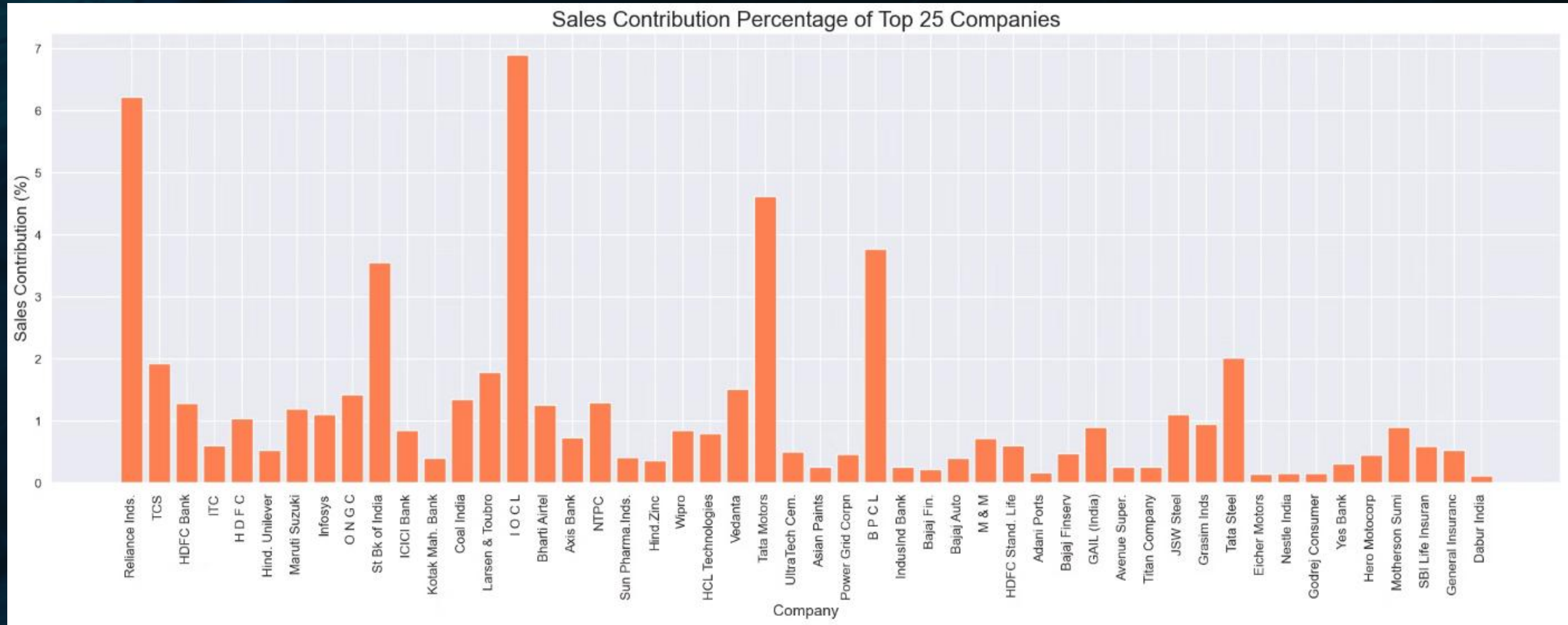


This analysis presents the yearly sales figures of the top 50 companies, showcasing their financial performance over the year. It displays the yearly sales of each of the top 50 companies, highlighting the highest and lowest performers. This visualization will clearly show the differences in sales figures among the companies.

Sales to Market Capital Ratio by Company -Top 25%



Sales Contribution Percentage of Top 25 Companies



► Sales Contribution Analysis

- Indicates individual company's contribution to overall sales.
- Shows contribution as percentage.
- Focuses on top 25 companies.

Predictive Model Overview



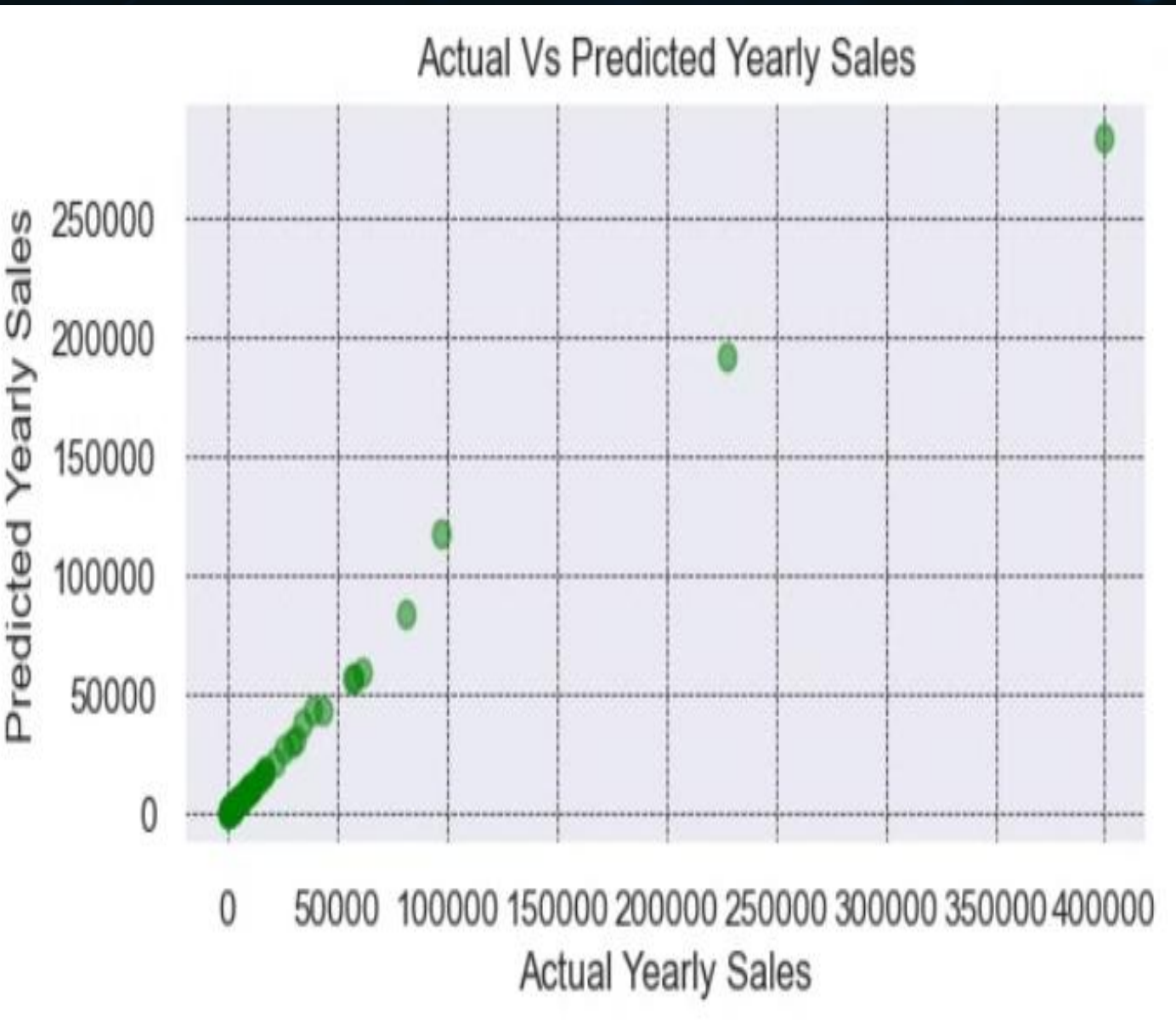
RandomForestRegressor



```
RandomForestRegressor(random_state=42)
```

	Yearly Sales	Actual Yearly Sales	Predicted Yearly Sales
265	11158.32	NaN	11078.0532
33	10755.40	2326.96	10863.5664
15	81274.40	3175.04	83666.9596
423	1695.64	NaN	1720.1172
58	44091.24	1843.56	42703.1724
..
275	5184.76	NaN	5164.8856
121	5354.52	NaN	5294.9072
133	56403.92	NaN	56428.0544
264	2847.96	NaN	2862.7696
444	17048.32	NaN	16907.5828

[73 rows x 3 columns]



Conclusion

Financial Analysis of India's Top Companies

- Robust data collection from company reports and industry databases.
- Positive correlation between market capitalization and quarterly sales.
- Good fit between actual and predicted yearly sales.
- Opportunities for improvement due to data variation.
- Insights for stakeholders for informed decision-making.

This analysis offers a comprehensive view of India's top companies' financial performance, providing valuable insights into market dynamics and company performance. Key metrics and trends are revealed, aiding investors, analysts, and business professionals in making informed decisions and enhancing understanding and strategic planning within the financial sector.